

**NOV 17 2005**

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF : John Grassi et al.  
FOR : **MOLD-REMOVAL CASTING METHOD  
AND APPARATUS**  
SERIAL NO. : 10/614,601  
FILED : July 7, 2003  
EXAMINER : Ing Hour Lin  
ART UNIT : 1725  
CONFIRMATION NO. : 7816  
ATTORNEY DOCKET NO. : **GISZ 2 00031**

**DECLARATION UNDER 37 C.F.R. § 1.132**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The undersigned declares as follows:

1. My name is Douglas Trinowski and I am the Vice President – Technical of HA International, LLC 630 Oakmont Lane, Westmont, Illinois 60559. This entity is a joint venture between Hüttenes-Albertus GmbH of Düsseldorf, Germany and Hexion Specialty Chemicals, Inc. (formerly Borden Chemical, Inc.) of Columbus Ohio. I have been involved in the foundry chemical binder industry for 29 years.

2. Hexion Specialty Chemicals is a leading supplier of high performance resins, adhesives, coatings and basic chemicals to a broad range of industries. Over 40 years ago, Hexion (as Borden Chemical, Inc. and its acquired subsidiaries) and Hüttenes-Albertus pioneered the development of thermosetting resins as binders for sand cores and molds used in metal casting. HA International's offerings include the industry's most advanced resins for bonding sand, as well as refractory coatings, resin coated sands and other specialty materials.

4. In my experience in the foundry mold manufacturing industry, I have never seen a process for the casting of metals which process comprises the steps of:

"providing a mold;  
delivering a molten metal into the mold;  
solidifying the molten metal; and,

removing at least a portion of the mold wherein the step of removing the mold begins before the step of solidifying the molten metal has been completed."

5. To my knowledge, the foundry molds manufactured using resins supplied by HA International have never been used in such a manner, until we were approached by Alotech and requested to cooperate with them. Alotech created a process in which the mold begins to be removed before the molten metal, which forms the casting in the mold, has been completely solidified. In my experience, Alotech's process is significantly different from any known process within the industry.

6. Alotech has also asked me to review a process for the casting of metals comprising the steps of:

"providing a mold;  
supplying molten metal to the mold;  
spraying the mold with a solvent;  
decomposing at least a portion of the mold with the solvent; and,  
cooling the molten metal with the solvent wherein the step of spraying commences before the molten metal has completely solidified."

7. In my experience in the foundry mold making industry, I have not seen any casting process in which the mold is sprayed with a solvent to decompose at least a portion of it before the molten metal in the mold has completely solidified.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.



*Linda M Hay*

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Respectfully submitted,

By *Douglas M. Trinowski*

Printed Name: Douglas M. Trinowski

Date: 11/15/05